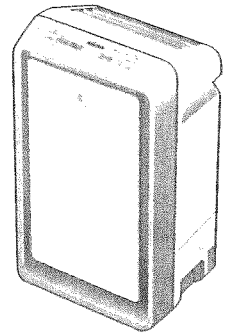


Operating Instructions Humidifying Air Purifier

Model No. **F-VXL40H**



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Operating methods

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Care and maintenance

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When you feel confused

Warranty card attached.

Thank you very much for purchasing this Panasonic product.

- Please read these operating instructions carefully in order to use the product correctly and in a safe manner.
- Also, be sure to read the "Safety precautions" section (P.26 to 27) before use.
- Make sure that the correct information is written on the warranty card, including the date of purchase and the name of the distributor. Keep the warranty documentation in a safe place along with the operating instructions for future reference.

“House dust catcher” and humidifying function brings clean and moisturizing air to you.

■ Measure against PM2.5

Catches 99 % of the particles having a size of 0.1 to 2.5 μm *¹

New particles coming from the outdoor by ventilation etc. are not calculated.

*1 Test method: Japan Electrical Manufacturers' Association voluntary standard (HD-128)

Criteria: The time to remove 99 % of the particles having a size of 0.1 to 2.5 μm in a closed space of 32 m^3 is within 90 minutes. (It is a value converted for the test space of 32 m^3 .)

- PM2.5 is a generic term for fine particulate matters having a size of 2.5 μm or less.
- It has not been confirmed that this product removes fine particulate matter of less than 0.1 μm . In addition, it is not mentioned that this product removes all of the harmful substances in the air.
- The result is of a test in closed space of 32 m^3 , instead of in actual application space.

■ Equipped with the 2 in 1 HEPA composite and deodorizing filter created by combining the dust collection filter and deodorizing filter.

■ “House dust catcher” sucks the dirt near the floor powerfully.

■ Equipped with nanoe™ technology

■ “Econavi” operation makes electric utility expense cheaper.

Evaluated by the test method of Panasonic own.

Test Method : Operate at “Clean air” mode for 24 hours in the test chamber of 23 m^3 . 5 cigarettes have been smoked.

The values have been compared between:

[Auto] consuming about 138 Wh.

[Auto with Econavi] consuming about 67 Wh.

These values are a guide only, the effect is different depending on the installation environment and the usage.

■ “Clothes Refresh” operation deodorizes the clothes.*²

The deodorizing effect differs according to the surrounding environment (temperature / humidity), operation time, or type of odor / textile.

*2 Testing organization: ENVIRONMENTAL CONTROL CENTER CO., LTD.

Test method: Conduct verification using six grades odor intensity measurement method. Located 40 cm away from the air outlet in the test chamber of 23 m^3 .

Deodorizing method: Emitting nanoe™ in “Clothes Refresh” operation

Target: Attached cigarette odor, barbecue odor

Test outcome: < cigarette odor > odor intensity drops 2 grades within 60 minutes. [H137229001000DA]

< acetic acid odor > odor intensity drops 1 grade within 60 minutes. [H137229001001DA]

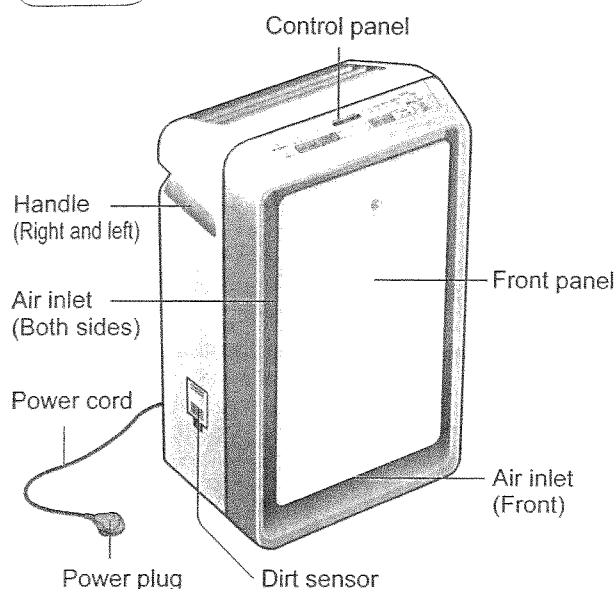
< barbecue odor > odor intensity drops 1 grade within 60 minutes. [H137229001002DA]

■ Sleep mode auto operation

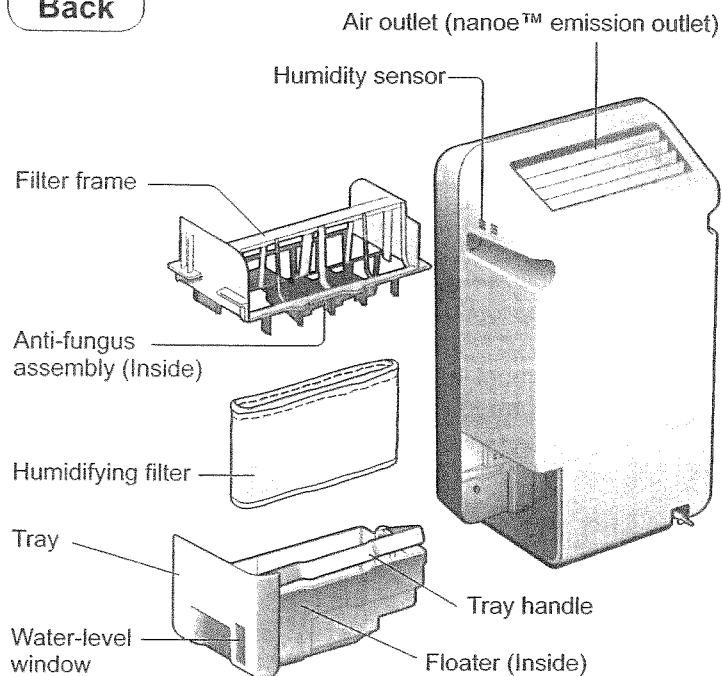
The product detects the indoor brightness with the light sensor and controls the brightness of indicators of the control panel and air volume automatically. (P.37)

Parts identification

Front



Back



Operating conditions

■ Do not put the product in the following places:

- Where the product will be exposed to direct sunlight or direct blowing/heat of air conditioner. (Otherwise, deformation, deterioration, discoloration or malfunction may be caused.)
- Near the window or where the humidity sensor area is blocked.
- Where the wind from air outlet is directly applied to furniture or wall. (Stains may be caused.)
- Near a TV set or radio. (Otherwise, distortion or noises may be caused.)
 - Keep 1 m or more away from such devices. If the power plug is inserted into the same outlet as that of these devices, distortion or noises may be caused. In this case, insert the power plug into another outlet.

It would be effective if placed here!

■ Place it low on the floor as a countermeasure against pollen.

Since pollen and dusts are likely to float in the air near the floor, we recommend you to put the product on the flat floor in the room.

■ To circulate the air efficiently in the room.

To prevent the air inlet or the air outlet from being blocked, install the product with its right, left and the top about 30 cm or more away from walls or furniture, curtains etc. To ensure efficient use of the product, keep its back at least 1 cm away from the wall.

■ Do not place any objects on the product. (Otherwise, malfunction or failure may be caused.)

- Do not place magnet or any metal objects on the product. (Otherwise the built-in magnet detects turnover causing the check indicator to light up, which will stop operation of the product.)

■ When there is a risk of freeze, please empty the tray. (If the product operates with water frozen, failure may be caused.)

■ Operating it continuously at the same location may result in the walls or the floor near the product to become dirty. We recommend that you change the installation place on the occasion of maintenance.

Safety precautions

Always observe these precautions

These safety precautions are provided for your protection. Please read and follow them carefully to avoid personal injury or damage to the product itself or other properties.

■ The following symbols differentiate the levels of danger and injury that may result if the product is not used correctly as instructed.



WARNING

This symbol indicates that improper handling may cause a risk of death or serious injury.



CAUTION

This symbol indicates that improper handling may cause a risk of injury or damage to the product or to your properties.

■ This manual uses a number of other symbols to indicate additional information.
(The symbols given below are examples.)



This symbol indicates an action that must not be performed.



This symbol indicates an action that must be performed.



WARNING

To prevent accidents such as fires and electric shocks



■ In case of any problem or failure, stop using the product immediately and unplug the power plug.

(Otherwise, electric shock, fire or smoke may occur.)

<Example of problem/failure>

- Water leakage
 - Moving the power cord stops operation.
 - Abnormal noise or vibration is observed during operation.
 - The product becomes abnormally hot or burning smell is observed.
- Immediately stop operation, disconnect the power plug and contact an authorized service center (as described in the warranty) for a check or repair.



■ Do not pull the power cord when carrying or storing away the product.

(It may damage the power cord, short-circuit may occur and cause electric shock or fire.)



■ Do not use overloaded wall socket or wiring equipment, and do not use a power supply other than specification.

(If the wall socket is overloaded, fire due to overheating may occur.)

■ Do not do anything that may damage the power cord or power plug.

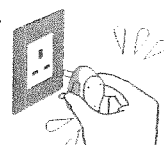
Power cord must not be damaged, modified, bend excessively, twisted or pulled. Also do not put near heating appliances, or put anything heavy on. Do not bundle.

(Short-circuit may occur and cause electric shock or fire.)
Please contact an authorized service center (as described in the warranty) for a check or repair the cord or plug.



■ Do not touch the power plug with wet hands.

(Electric shock may occur.)



■ Insert the power plug thoroughly.

(If the power plug is not inserted securely, electric shock or fire due to overheating may occur.)

- Do not use damaged plugs or loosen wall sockets.

■ Periodically clean the power plug.

(If dust builds up on the power plug, it may absorb moisture causing poor insulation, which may result in fire.)

- Disconnect the power plug and wipe it with a dry cloth.
- If not using the product for a long period, disconnect the power plug.



■ Do not disassemble or modify this product.

(Disassembling or modifying the product may result in ignition or electric shock and fire due to malfunction.)

Please contact an authorized service center (as described in the warranty) for repair.



■ Do not insert your fingers or any metal objects into the air inlet or outlet.

(May cause injury and electric shock.)



■ Do not let the product get wet.

(Otherwise a fire and electric shock may be caused due to short circuit.)



■ Be sure to disconnect the power plug before cleaning the product.

(The product may start operating unexpectedly and electric shock or injury may occur.)



CAUTION



■ Do not put the product in the following places:

- An unstable or high place.
(Otherwise it may drop down or fall over, then cause injury, wet the furniture, leakage, electric shock or fire.)
- Where the temperature or humidity is too high, or where the product is exposed to water, such as a bathroom.
(Electric leakage may cause electric shock or fire.)
- Where oil is contained in the air, such as in kitchens.
(Otherwise, injury may be caused due to cracks.)
- Where oil or inflammable gas is present and may be leaked.
(Otherwise, ignition may occur, or the product may suck and cause a fire or smoke.)
- Where animals or plants are directly exposed to the air.
(Cause of dehydration due to wind)



■ Turn off the product and empty the water before moving the product.

■ Do not carry the tray by holding the filter frame.

(If the water falls, may cause injury, wet the furniture.)

■ Before moving the product, hold the right and left handles to lift and carry the product.

- Do not carry the product by holding the front panel.

(Otherwise it could be slipped out and result in minor injury.)



■ When unplugging the power plug, grasp the power plug instead of the power cord.

(Otherwise, a fire or electric shock may be caused due to wire breakage or short circuit.)



■ Ventilate the room if using this product together with a heater.

(Otherwise carbon monoxide poisoning may occur.)

- This product cannot remove carbon monoxide.



■ Be sure to always keep the water in the tray and interior of the product clean.

If the interior is contaminated by dirt or incrustation,

- Water leakage may occur.
- A foul odor may occur due to mold or bacteria.
- Contamination may harm human health (though it is rare).

→When you feel uncomfortable, please consult a doctor at once.

- Replace the water in the tray with new tap water every day.
- Clean the interior of the product periodically.



■ Do not use cracked or damaged tray.

(This may cause spillage and wet the furniture.)

■ Do not put chemicals, air fresheners, or essential oil into the tray.

(It may damage the tray and wet the furniture.)

■ Do not clean the product with solvents such as benzine or thinner, and do not apply insect sprays.

(This product may become cracked and injury may occur. This may cause spillage and wet the furniture, or short-circuit may occur and cause electric shock or fire.)

■ Do not operate this product in places when using smoke insecticide.

(Chemical residue may build up inside the product and be discharged from the air outlet, resulting in a health hazard.)

- Ventilate the room well after using insecticides before operating the product.

■ Do not sit or lean against this product.

(Otherwise, injuries may be caused.)

- Special attention should be paid when the product is used at home with small children.

■ Do not push over this product.

(A fire or electric shock may be caused if water spills out.)



■ Do not put flammable substances or burning items such as cigarette or incense near the product.

(Fire may occur.)

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

- This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experiences and knowledge, unless they have been given supervision or instruction concerning use of the product by a person responsible for the safety.

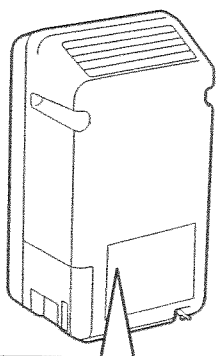
- Children should be supervised to ensure that they do not play with the product.

Preparation

Before startup

Install the 2 in 1 HEPA composite and deodorizing filter

1 Write down the installation date on the label.



Replacement 2 in 1 HEPA composite and deodorizing filter

Part No. F-ZXLS40Z

Date installed:

Replacement humidifying filter

Part No. F-ZXLE40Z

Date installed:

- When using the replacement 2 in 1 HEPA composite and deodorizing filter or the replacement humidifying filter (Service parts → P.42), write down the installation date on the label provided with the replacement filter, and stick it on the back of the product.

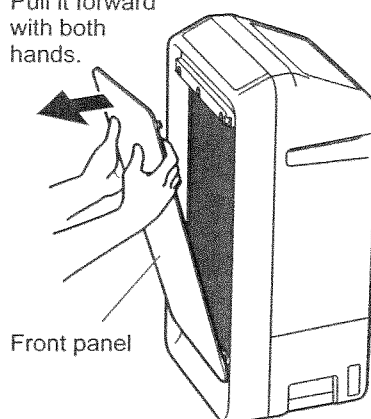
Attention

- Be sure to read P.25 to 27 before installation.

2 Take out the 2 in 1 HEPA composite and deodorizing filter from the poly bag.

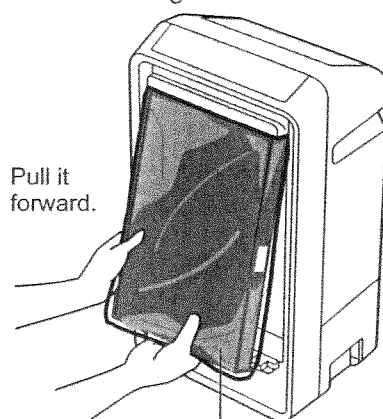
① Remove the front panel.

Pull it forward with both hands.



Front panel

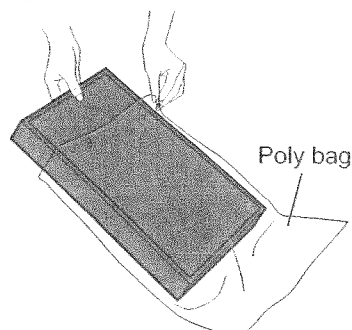
② Remove the 2 in 1 HEPA composite and deodorizing filter.



Pull it forward.

2 in 1 HEPA composite and deodorizing filter

③ Take out the 2 in 1 HEPA composite and deodorizing filter from the poly bag.



Poly bag

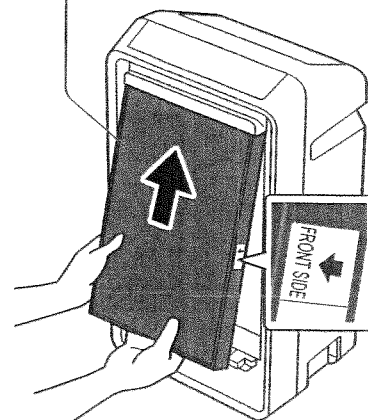
3 Install the 2 in 1 HEPA composite and deodorizing filter and the front panel.

① Install the 2 in 1 HEPA composite and deodorizing filter.

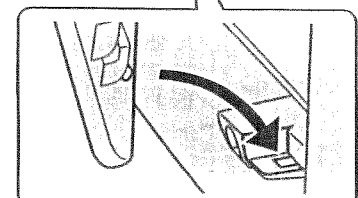
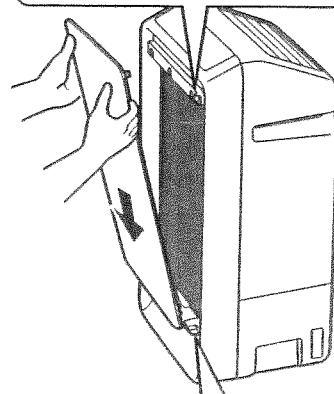
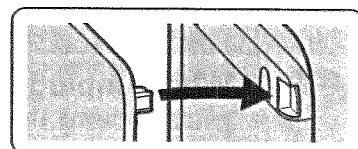
(Install in the correct direction.)

2 in 1 HEPA composite and deodorizing filter

With the front side towards yourself (setting the side with label [FRONT SIDE] to the right), fit into the groove of the product.



② Install the front panel.



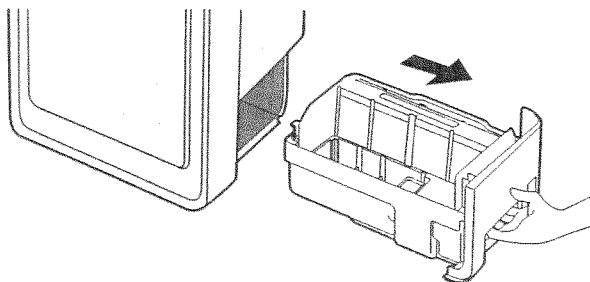
- Be sure to attach the front panel before use.

Fill the tray with water

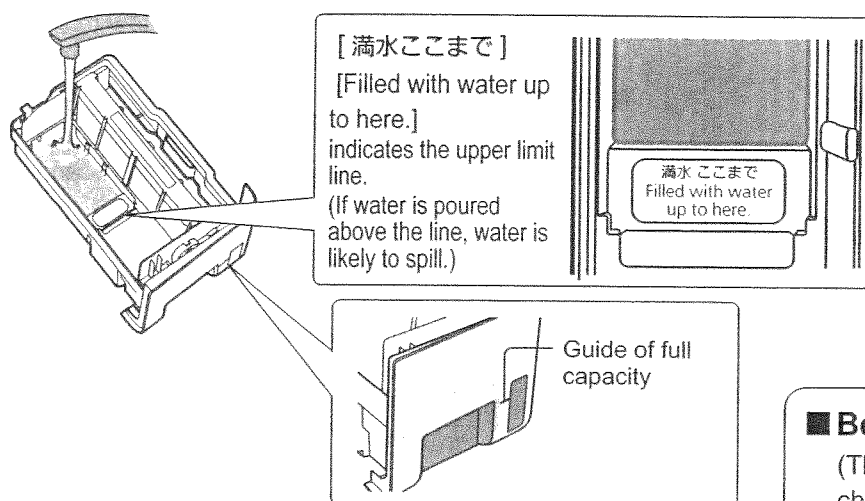
4 Remove the tray, fill it with water, and install it back.

(Water is not required when the product operates in "Clean air" mode.)

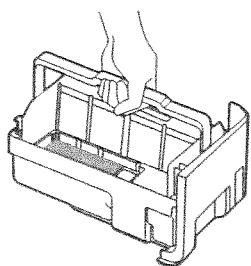
① Remove the tray.



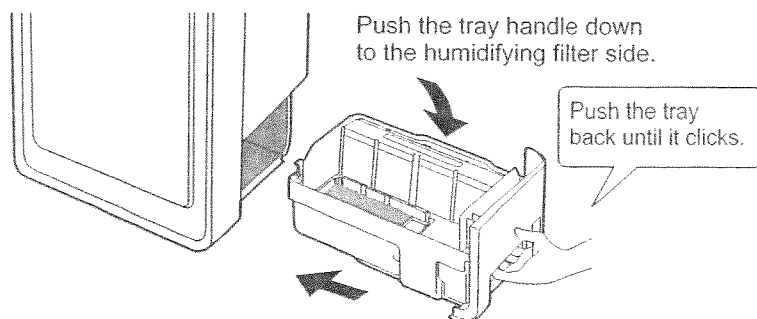
② Fill it with water.



③ Hold the tray handle and carry the tray taking care not to tilt it.



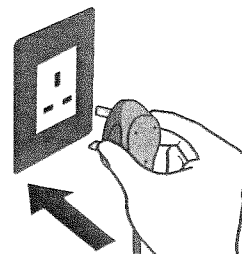
④ Reinstall the tray slowly.



Turn on

5 Connect the power plug.

Wipe the water off the power plug and your hands before inserting it.



- Press **Power Off/On**, and the clean indicator (P.30) blinks blue or red for about 5 seconds.

■ Be sure to use the tap water

(This is because tap water is normally chlorine-disinfected to prevent breeding of bacteria.)

● Do not use the following water:

- Water above 40 °C or mixed with detergent. (Otherwise, deformation or failure may occur.)
- Water mixed with chemicals, air fresheners, or essential oil. (It may damage the tray and cause spillage or wet the furniture. :P.27)
- Water from water purifier, ionized alkaline water and well water. (It may cause mold or bacteria.)

Attention

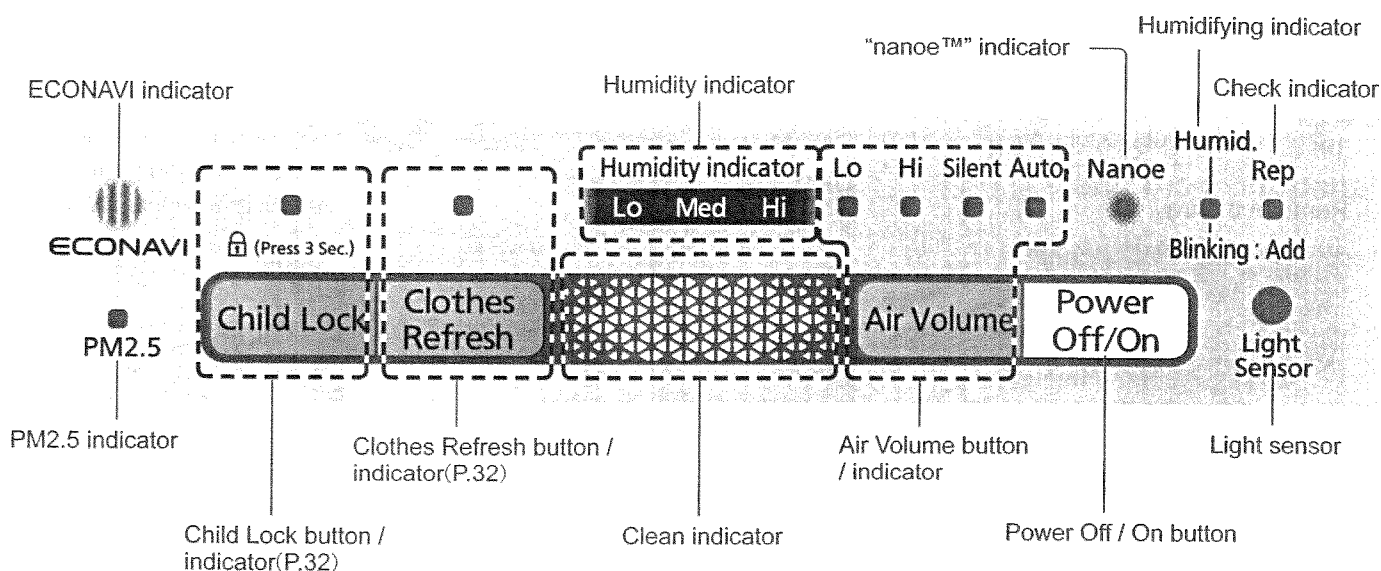
- If you have to use the well water (drinkable), please maintain and clean the tray, the humidifying filter, the filter frame more frequently.

■ Continuous operation time of a tray of water

- Operates for about 4 hours 30 minutes. (Under the condition of [Hi] / room temperature 20 °C and humidity 30 %)

Operating methods

Control panel



■ ECONAVI indicator

- The indicator is lit during ECONAVI operation. (P.37)
(The indicator is lit when the air volume is set at [Auto] or [Silent].)
- ECONAVI operation can be turned off.
 - During operation, press **Child Lock** and **Clothes Refresh** simultaneously and hold for 3 seconds. (ECONAVI indicator is turned off.)
 - To restart ECONAVI operation, press the buttons simultaneously and hold for 3 seconds again. (ECONAVI indicator is lit.)

■ PM2.5 indicator

When the product detects PM2.5, the PM2.5 indicator is lit and the clean indicator blinks red. Then, the clean indicator changes from blinking to lit. (PM2.5 indicator is lit when the product detects substances of the size of 2.5 μm or less, such as cigarette smoke or dust.)

■ Humidity indicator

- The indicator shows the status of ambient humidity.
 - [Lo] (red): indicates the ambient humidity is low (about 40 % or less).
 - [Med] (green): indicates the ambient humidity is moderate (about 40 % to 60 %).
 - [Hi] (red): indicates the ambient humidity is high (about 60 % or more).

■ Clean indicator

The indicator shows the air pollution level detected by dirt sensor. The sensitivity of the sensor can be changed. (P.38 Q8)

- (blue): indicates the air is clean.
- (red-small): indicates the air is slightly dirty.
- (red-large): indicates the air is dirty.

■ nanoe™ indicator

- The indicator is lit when nanoe™ is generated.
- nanoe™ operation can be turned off.
 - During operation, press **Child Lock** and **Air Volume** simultaneously and hold for 3 seconds. (The nanoe™ indicator is turned off.)
 - To restart nanoe™ operation, press the buttons and hold for 3 seconds again. (The nanoe™ indicator is lit.)

■ Check indicator

When the abnormality occurs in the products, the indicator is lit.
When the indicator is lit. → (P.41)

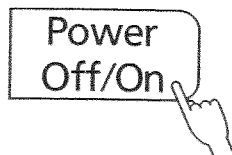
■ Light sensor

Detecting indoor brightness with the light sensor, the product adjusts the brightness of indicators of the control panel and adjusts the air volume, automatically. When the room becomes dark, for example during sleep, the product operates "Sleep mode auto operation". (P.37) (When the air volume is set at [High] or [Lo], the product does not adjust the air volume even while "Sleep mode auto operation" is set.)

How to operate

1

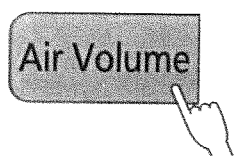
Start operation



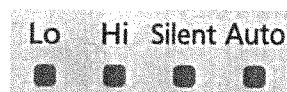
- Fill the tray with water when you want to operate in the "Humidifying clean air" mode.
Water is not required when the product is operated in the mode of "Clean air".

2

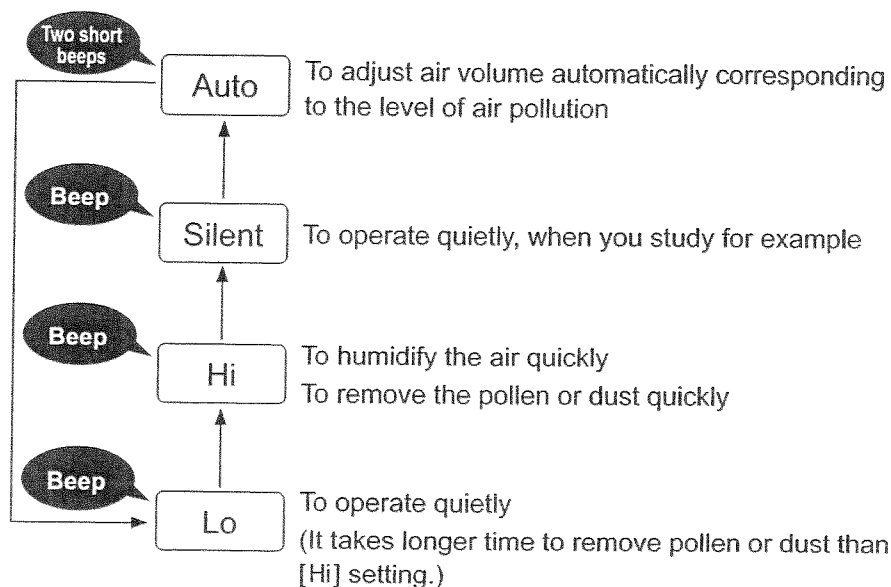
Select the air volume



Each press of the button will switch the air volume setting.

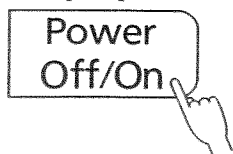


The indicator of selected setting is lit.



3

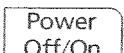
Stop operation

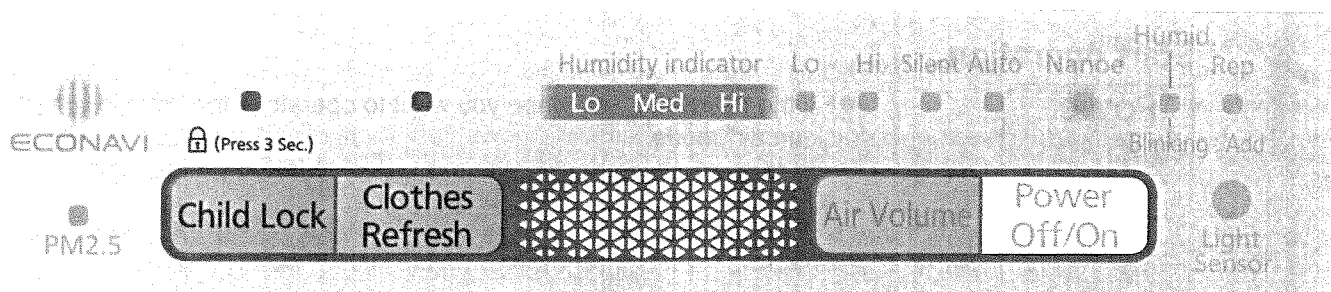


■ Humidifying indicator

- The indicator is lit when the product operates in the "Humidifying clean air" mode.
- When the tray is empty during "Humidifying clean air" operation, two short beeps sound and the humidifying indicator blinks. (The product switches to "Clean air" operation.)

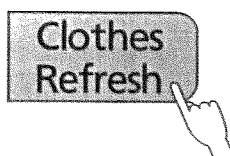
When the humidifying indicator blinks

- Beep sounds every 10 minutes until you fill the tray with water.
You can turn off beep of the second and subsequent. (P.39 Q9)
(During "Sleep mode auto operation (P.37)", the second and subsequent beeps do not sound.)
- When you do not fill the tray with water more than 60 minutes, beep sounds every 60 minutes.
→ Fill the tray with water. (P.29)
- To switch to "Clean air" operation while the humidifying indicator blinks,
press  and turn off the indicator.



Clothes Refresh


(The indicator is lit.)



To refresh unpleasant odor of clothes

- After 1 hour operation, the product will switch to the previous operation mode.

■ To cancel

Press the button again. (The indicator is turned off.)





Note

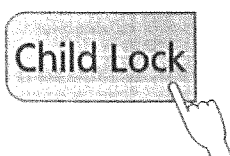
- When you press the [Air Volume] button during "Clothes Refresh" operation, "Clothes Refresh" is canceled.
- You cannot turn off the nanoe™ operation.
- The effect varies depending on the ambient environment (temperature and humidity), operating time, or type of odor or textile.

Attention


- Adjust the position of the product in order to expose the clothes to the air from the product.

Child Lock


 (Press 3 Sec.)
(The indicator is lit.)



To prevent the product from mischief operation by children

After setting [Child Lock], if you press the buttons other than , two long beeps sound and you cannot operate.

■ To cancel

Press the button and hold for about 3 seconds again.
(The indicator is turned off.)

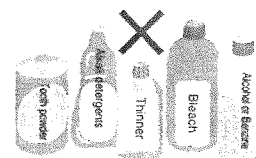
Care and maintenance

2 in 1 HEPA composite and deodorizing filter / Body / Front panel / Dirt sensor

Before cleaning

- Be sure to disconnect the power plug.

- Do not use the detergent other than the neutral one for kitchen purpose. (Deterioration, deformation or breakage of plastic parts may occur.)
- When using chemically treated cloth, follow its instructions.

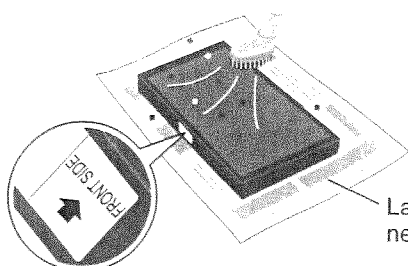


2 in 1 HEPA composite and deodorizing filter <about once every 2 weeks>

Suck the front side with vacuum cleaner etc.

(Installation and removal instructions → P.28)

To remove dust accumulated on the filter area, suck with vacuum cleaner etc.



Lay the filter on newspaper etc.

- Do not apply excessive force because it is easy to be damaged. (Pay close attention when cleaning the back side because it is breakable.)
- Do not wash with water.

Attention

- Do not operate without the 2 in 1 HEPA composite and deodorizing filter. (It may make it impossible to obtain the effect to clean air, or may cause failure due to dusts entering the product.)
- Safely keep the parts removed from the product when cleaning. (Otherwise you may trip over them. Or the parts may be damaged.)

Reference time for the 2 in 1 HEPA composite and deodorizing filter replacement

(Service parts P.42)

replacement period	conditions
About once every 5 years*	When six cigarettes have been smoked daily. (Japan Electrical Manufacturers' Association JEM1467)

*Filter replacement period may be greatly shortened, depending on the use environment and conditions. (For example, smoking is frequent.) When the effect has faded (for example when odor stays longer than before), replace the filter.

- After replacement, fill the date installing the filter in the label and stick it on the back of the product.
- Dispose of the used filter as inflammable garbage.

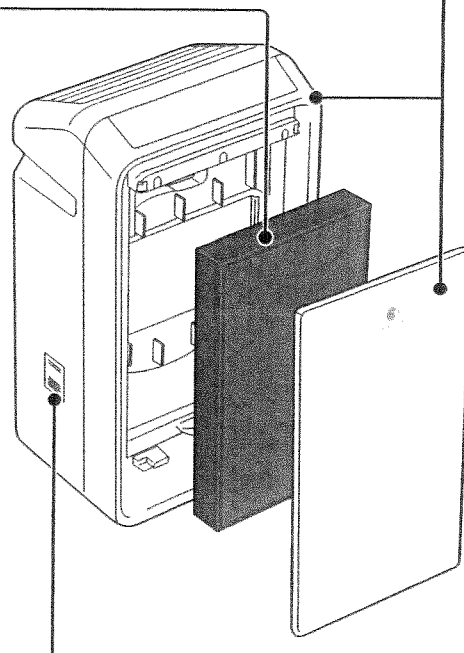
Body, Front panel <about once a month>

Wipe with a soft wrung cloth.

(Installation and removal instructions → P.28)

Wiping with hard cloth may scratch the surface.

- Wipe the power plug with dry cloth.

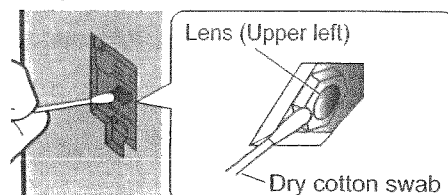
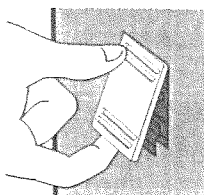


Dirt sensor <about once every 3 months>

Wipe dirt off the lens with dry cotton swab.

- Wipe the lens periodically. (The sensor may not work normally when it is contaminated with moisture or tar of cigarette.)

- Remove the sensor cover.
- Wipe dirt off with dry cotton swab.



- Be sure to disconnect the power plug before cleaning the sensor.
- Do not insert the cotton swab anywhere other than the lens.
- Illuminate the area when you do not see clearly.

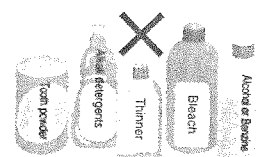
Care and maintenance (continued)

Tray

Before cleaning

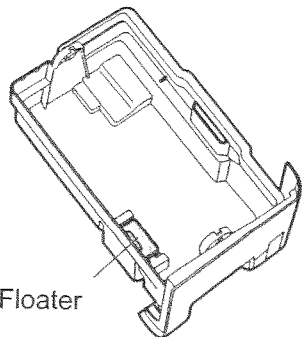
- Be sure to disconnect the power plug.

- Do not use the detergent other than the neutral one for kitchen purpose. (Deterioration, deformation or breakage of plastic parts may occur.)
- You can use the oxygen-based bleaching agent only when cleaning the humidifying filter.
- When using chemically treated cloth, follow its instructions.



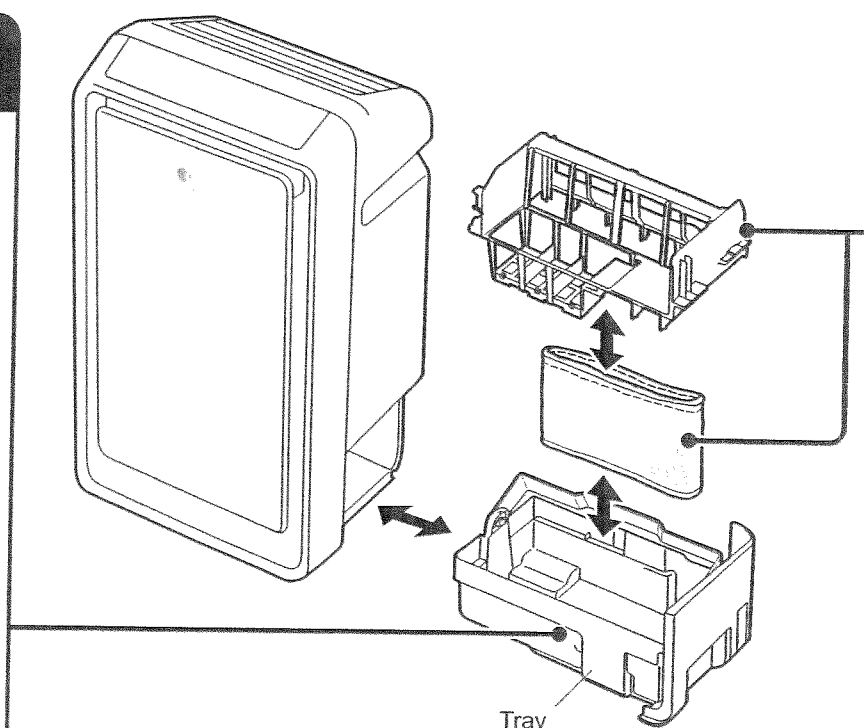
Tray
 <About once a month*1>

Wash with water.



Floater

- Wipe the dirt in details with cotton swab or toothbrush.
- Do not remove the floater (polystyrene foam).
- Stubborn stains
 →(To remove the stubborn stains)



Attention

- Do not operate without the humidifying filter. (It makes it impossible to humidify the air.)
- Drain after removing the tray. Do not drain with the tray installed. (Water may enter inside the body, and failure may occur.)

*1 As the dirtiness varies depending on the water quality, maintenance may be required even within one month after the last maintenance. If it smells unpleasant or water in the tray decreases less than before, clean the tray.

To remove the stubborn stains

<ul style="list-style-type: none"> Tray Filter frame (Anti-fungus assembly) 	Wash with water containing the neutral detergent for kitchen purpose or citric acid. Soaking
<ul style="list-style-type: none"> Humidifying filter 	After soaking, press and wash.

*The ratio of citric acid to warm water is 20 g to 3 L.

How to soak and wash

- Dissolve neutral detergent for kitchen purpose or citric acid well in warm water (below about 40 °C).
 - Soak the parts for 30 minutes. Rinse with clean water 2 to 3 times.
- Rinse enough, otherwise, the remaining detergent may smell or failure may occur.

Humidifying filter / Filter frame

Humidifying filter, Filter frame <about once a month*1> (based on operation of 8 hours every day)

■ Humidifying filter

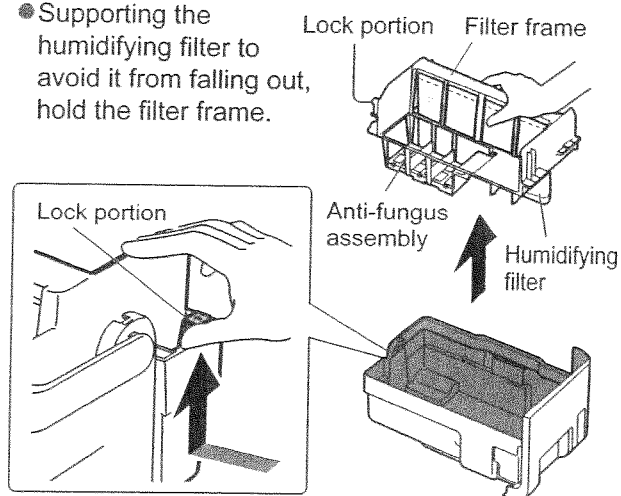
Press and wash in water or warm water (below about 40 °C).

- Do not scrub with brush or do not wash with washing machine.
- Do not dry with dryer. (It may cause shrinkage.)
- If it is hard to remove the dirt or smell, please immerse the heavily stained filter and filter frame in warm water containing the neutral detergent for kitchen purpose or in the solution of citric acid for about 30 minutes, then wash for 2 to 3 times with clean water.
 - Only when cleaning the humidifying filter, you can use the oxygen-based bleaching agent. For use amount, follow its instructions.

How to remove

Lift the filter frame while pressing the lock portion.

- Supporting the humidifying filter to avoid it from falling out, hold the filter frame.



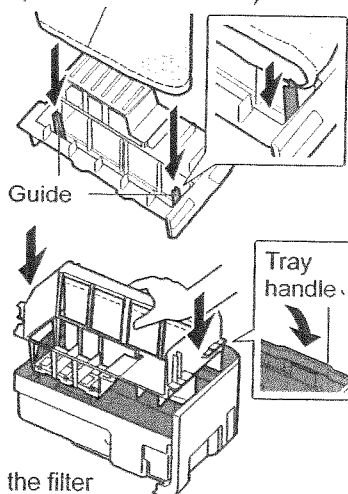
■ Filter frame

Wash with water.

- Do not scrub the anti-fungus assembly with brush, or do not apply excessive force to it.
- Do not disassemble the anti-fungus assembly.

How to assemble

- ① Turn over the filter frame. (Stitched side (blue line) come inside)
- ② Align the humidifying filter to the guides of the filter frame and insert it thoroughly.
- ③ Fold the tray handle to the opposite side of the floater. (If you fold the handle to the floater side, you cannot install the filter frame.)
- ④ While holding the humidifying filter, install the filter frame to the tray. (Push the frame until it clicks.)



Note

- The anti-fungus assembly may have powder. This is normal and it performs without problem.
- The anti-fungus agent will become smaller over time. This is normal and it performs without problem.
- The anti-fungus agent has a peculiar smell. It is not harmful.

Reference time for the humidifying filter replacement

(Service parts P.42)

Replacement period	Conditions
About once every 10 years*2	Based on 8 hours operation daily

- After replacement, write the date installing the filter on the label and stick it on the back of the product.
- Dispose the used filter as inflammable garbage. Do not discard the filter frame.

*2 The service life of the humidifying filter varies depending on water quality. In any of the following cases, replace it.

- Odor is not removed after cleaning.
- The water in the tray does not decrease.
- It is seriously damaged.

When idle for a long time

- ① Disconnect the power plug. (The product consumes power even at rest.)
- ② Empty the tray and clean all the parts.
- ③ Dry their interiors completely. (Otherwise, the product may fail due to rust.)
 - Dry the humidifying filter completely in the shade. (Otherwise, fungus may occur.)
- ④ Cover the product with poly-bag, and keep in dry places. (Do not keep it laid down or upside down, otherwise, failure may occur.)

Further information

About "nanoe™"

Generating environment of nanoe™

- nanoe™ is generated using the air in the room and hence, depending on the temperature and humidity, nanoe™ may not be generated.
- Conditions for generations
Surrounding temperature: About 5 °C to 35 °C (dew-point temperature: more than about 2 °C)
Relative humidity: About 30 % to 85 %

A small amount of ozone is generated.

- When nanoe™ is generated, small amount of ozone will be released. However, the quantity will be at the usual level in forest or natural environment, and not harmful to human beings.

About nanoe™ technology

■ nanoe™

The nanoe™, generated from the most advanced nanotechnology, is a kind of a nano-sized ion particle coated with water particles. With nanoe™ technology, the effect of sterilization**¹, inhibiting allergic substance (pollen)*², inhibiting mold bacteria*³ and deodorization*⁴ can be achieved. Furthermore, it creates an atmosphere for beautiful, moisturized skin.

★ <Airborne bacteria> The result is of a 4 hours test in closed space of 25 m³, instead of in actual application space.

★ <Adhering bacteria> The result is of a 8 hours test in closed space of 23 m³, instead of in actual application space.

The deodorizing effect differs depending on the surrounding environment (temperature / humidity), operation time, or type of odor / textile.

● These are the verification results of nanoe device, and these are different from the verification results of this product.

*1 <Airborne bacteria>

- Testing organization: Kitasato Research Center of Environmental Sciences
- Test method: Suspend bacteria in the test chamber of 25 m³ and measure the bacteria count in the air.
- Inhibiting method: Emitting nanoe™
- Target: airborne bacteria
- Test outcome: inhibited 99 % and above in 4 hours. [Test number 24_0301_1]

<Adhering bacteria>

- Testing trustee: Japan Food Research Laboratories
- Test method: Suspend bacteria in the test chamber of 23 m³ and measure the bacteria count adhered to a cloth.
- Inhibiting method: Emitting nanoe™
- Target: bacteria that was ingrained in standard cloth
- Test outcome: inhibited 99 % and above in 8 hours [No. 13044083003-01]. Each test carried out on only one type of bacteria.

*2 ● Testing organization: Panasonic Corporation Analysis Center

- Test method: Measure allergic substances adhered to a cloth with ELISA method in the test chamber of 23 m³.
- Inhibiting method: Emitting nanoe™
- Target: adhered allergic substance of pollen
- Test outcome: inhibited 88 % and above in 8 hours. [BAA33-130402-F01]

*3 ● Testing trustee: Japan Food Research Laboratories

- Test method: Confirm fungi adhered to a cloth in the test chamber of 23 m³.
- Inhibiting method: Emitting nanoe™
- Target: adhered fungi
- Test outcome: Confirm the effect in 8 hours. [No. 13044083002-01]

*4 ● Testing organization: Panasonic Corporation Analysis Center

- Test method: Conduct verification using six grades odor intensity measurement method in the test chamber of 23 m³.
- Deodorizing method: Emitting nanoe™
- Target: adhered cigarette odor
- Test outcome: odor intensity drops 1.2 grades within 2 hours. [BAA33-130125-D01]

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Functions of the anti-fungus assembly

It inhibits the enzyme with the anti-fungus agent and keeps water in the tray clean.

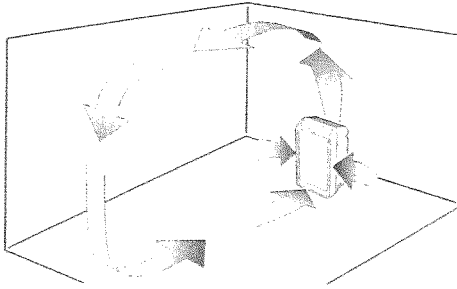
- Testing trustee: Japan spinning inspection association
- Test method: Verify the method to prevent mold bacteria (Halo method).
- Anti-fungus method: Install the anti-fungus assembly to the tray.
- Target: Humidifying filter in the tray
- Test outcome: confirm that inhibited. [No. 09006504-1]

Econavi operation

It is the automatic operation by combining the "patrol mode" in which the product checks the dirt in the air in the room every hour, with the "learning mode" in which the product can forecast the dirt generation by mastering the generation time of dirt every day.

It saves power by stopping operation automatically when the air is clean. Meanwhile, the product will operate in advance to eliminate the dirt effectively before spreading, thus reducing the operation time.

Patrol mode



The product will stop operating automatically after the air is cleaned. After the operation is paused for 50 minutes, the product will operate for 10 minutes in the patrol mode.

(Air volume is controlled between [Lo] and [Hi].)

- While the operation is paused and in the patrol mode, if the dirt is detected, the product will operate with the air volume corresponding to the level of dirtiness.
- While humidifying, even if the dirt is not detected, the product will operate corresponding to the ambient humidity.

Learning mode

During operation, the product memorizes the time and dirtiness level, and the next day, it will run the preventive operation 5 minutes before the memorized time.

(The memory is updated every day. If it is disconnected, the previous memory is erased.)

Sleep mode auto operation

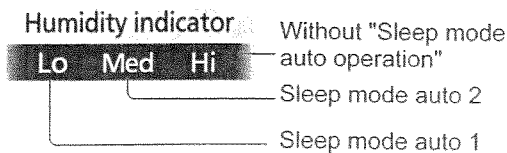
The product detects the indoor brightness with the light sensor and controls the brightness of indicators of the control panel and air volume automatically. (The initial setting is [Sleep mode auto 1].)

- The brightness of indicators in "Sleep mode auto operation" can be changed.

- ① Stop operation, then press and hold **Child Lock** and **Clothes Refresh** simultaneously.
(The humidity indicator is lit in turn.)

- ② Release the buttons when the brightness reaches you want.

Humidity indicator shows:



Setting	Control panel	Indoor brightness	
		dim	dark
Sleep mode auto 1	Clean indicator Econavi indicator nanoe™ indicator	Half on	Off
	Other than above	All on	Half on
Sleep mode auto 2	Clean indicator Econavi indicator nanoe™ indicator	Half on	Half on
	Other than above	All on	
Without "Sleep mode auto operation"	Clean indicator Econavi indicator nanoe™ indicator	All on	
	Other than above		

- When the air volume is set at [Hi] or [Lo], even while "Sleep mode auto operation" is set, the air volume is kept unchanged.

Functions of dirt sensor

The sensor detects the dirtiness of the air, and the clean indicator shows the dirtiness level. When [Auto] or [Silent] is set, the product will operate with the air volume corresponding to the type of dirtiness.

- The product may not sense the dirt depending on airflow, for example, when a heater is placed nearby.

Detect	May detect
<ul style="list-style-type: none"> ● PM 2.5 (smoke of cigarette, dust, etc.) ● House dust (dust, dead bodies and excreta of ticks, mold spores, pollen) ● Smoke (cigarette, incense, etc.) 	<ul style="list-style-type: none"> ● oil fumes, water vapor

FAQs

Please confirm the following before you contact us for repair.

Q1 The air is cold during humidifying?

A

- During "Humidifying clean air" operation, the air coming from the product will be colder than the room temperature, since the moisture from the wet humidifying filter absorbs the heat in the air.

Q2 There is no steam during humidifying?

A

- This product generates moisture by blowing the humidifying filter containing water, not by boiling the water, and hence does not generate the steam.

Q3 The humidifying amount is reduced?

A

- In rainy season with high humidity or in cold weather, the humidifying amount decreases as you can see, for example, the washed clothes are difficult to dry. The humidifying amount changes depending on the room temperature and humidity, and increases when the weather is warm and dry.

Q4 The humidity indicator remains red?

A

■ The humidity indicator remains [Hi].

- The product may not sense the humidity correctly depending on the installation place.
→ Change the installation place. (P.25)

Humidity indicator

Lo Med Hi (Humidity indicator)

■ The humidity indicator remains [Lo].

- The room size may be too large for the product?

Note

- Use the humidity indicator only as a reference.
- It may be different from the display of the household hygrometer.
- The humidity value will vary with the temperature.
- The humidity may also vary with the airflow condition.

Q5 A buzz is heard from the air outlet?

A

- The noise comes from nanoe™ generation is normal.
- May cause no generation by temperature and humidity.

Q6 The humidifying filter is discolored?

A

- The filter may be discolored depending on the water quality. This will not affect the performance.

Q7 Dew condensation is on windows or walls.

A

- Even if the humidity in the room is moderate, there may be dew condensation on a cold window or wall.

Q8 PM2.5 indicator does not blink? (Change the sensitivity of the sensor)

A

- Such problems are likely to occur when the sensitivity of the sensor is low.
You can change the sensitivity as you want.
(The initial setting is [Med].)

- ① Stop operation, then press and hold **Clothes Refresh** and **Air Volume** simultaneously.
(Air Volume indicators are lit in turn.)

- ② Release the buttons when the sensitivity you want is obtained.

(Air Volume indicator)

Lo Hi Silent

- High: To set high sensitivity
- Medium: To set medium sensitivity
- Low: To set low sensitivity

Q9

To turn off the beep sound announcing water refilling

- You can turn off the second and subsequent beep sounds. (You cannot turn off the first beep sound.)

① Stop operation, then press and hold

Clothes Refresh

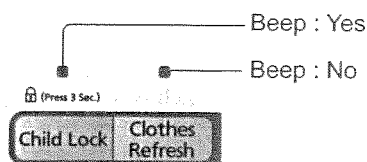
Power Off/On

and simultaneously. ([Child Lock] and [Clothes Refresh] indicators are lit in turn.)

② Release the buttons when the setting reaches [No].

- To turn on the beep sound announcing water refilling, you can set [Yes] in the same way.

([Child Lock] / [Clothes Refresh] indicators)



Q10

To turn off the indicators

- You can turn off the clean indicator, Econavi indicator, and nanoe™ indicator.

● During operation, press

Clothes Refresh

Air Volume

and simultaneously and hold for 3 seconds. (The clean indicator, Econavi indicator, and nanoe™ indicator are turned off.)

- To turn on again, press the buttons simultaneously and hold for 3 seconds again. (The clean indicator, Econavi indicator, and nanoe™ indicator are lit.)

Q11

During operation, indicators go off?

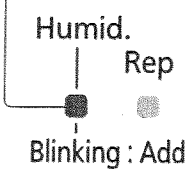
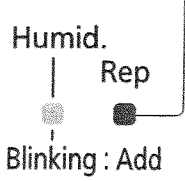
- When you set "Sleep mode auto operation", the light sensor detects the indoor brightness and the product will adjust automatically the brightness of indicators of the control panel.

When you set [Sleep mode auto 1] and the light sensor detects that the room is dark, the clean indicator, Econavi indicator, and nanoe™ indicator are turned off. (P.37)

Troubleshooting

If a problem has occurred, investigate it by referring first to the table below. If the problem still persists, please disconnect the power plug and contact an authorized service center (as described in the warranty) for a check or repair.

Symptom	Please check the following:
① The clean indicator remains red even when the operation continues.	<ul style="list-style-type: none"> ● The indicator may illuminate red when the product is exposed to steam in the bathroom or vapor emitted from sprayers. ● When the sand is flying in the air. ● Is the dirt sensor dirty? (P.33)
② Automatic operation cannot be stopped.	<ul style="list-style-type: none"> ● Under the setting of [Auto] or [Silent], even if the dirt is not detected, the product will operate corresponding to the ambient humidity.
③ The clean indicator remains blue even when the air is dirty.	<ul style="list-style-type: none"> ● Is the dirt sensor dirty? (P.33)
④ Polluted air is difficult to be removed.	<ul style="list-style-type: none"> ● Is the 2 in 1 HEPA composite and deodorizing filter dirty? (P.33) → Clean it. If the symptom persists, replace it with the new one.
⑤ The air volume is small.	<ul style="list-style-type: none"> ● Is the 2 in 1 HEPA composite and deodorizing filter or the humidifying filter dirty? (P.33, 35) → Clean them. If the symptom persists, replace them with the new ones.
⑥ The odor from the product is unpleasant.	<ul style="list-style-type: none"> ● Is the main body, the front panel or the 2 in 1 HEPA composite and deodorizing filter dirty? → Clean them. If the symptom persists, replace the 2 in 1 HEPA composite and deodorizing filter with the new one. (P.33) ● Is the tray or the humidifying filter dirty? (P.34, 35) ● Is water in the tray replaced with fresh tap water every day? (P.27) ● In "Clean air" mode (without humidifying), empty the tray. ● Has it ever used in a room with strong smells? If the product is used in a room where people smoke or barbecue, a shorter replacement cycle of filters may be required. (P.33) → When the product is used in such environment, we recommend that you use the ventilation system of the room simultaneously.
⑦ The water amount in the tray does not decrease. While the humidifying indicator is lit, the product does not humidify.	<ul style="list-style-type: none"> ● Is the humidifying filter dirty? (P.35) ● Does the humidity indicator show [Hi]? → In the [Auto] setting, the product will stop humidifying to keep appropriate humidity, when [Hi] is on. ● Is the tray installed completely? ● Is the humidifying filter installed properly? (P.35) → When the humidifying filter is installed incorrectly, the product will sound abnormally, and not humidify.
⑧ The humidity does not increase.	<ul style="list-style-type: none"> ● Is the room size too large for the product? ● Is the room ventilated or having a carpet on the floor? → A carpet floor or some types of ventilation and floor/wall materials may prevent smooth humidification.
⑨ There is condensation inside the tray.	<ul style="list-style-type: none"> ● Immediately after the product stops operation or when the room is cold, there may be condensation. This is normal.

Symptom	Please confirm the following:
⑩ It is difficult to install the tray to the body.	<ul style="list-style-type: none"> ● Is the humidifying filter or the filter frame installed properly? (P.35) → If they are installed incorrectly, it may be difficult to install / remove the tray to/from the body.
⑪ The humidifying indicator blinks. 	<ul style="list-style-type: none"> ● Is the tray filled with water? (P.29) Water is empty in "Humidifying clean air" mode. If the tray is empty, the product will switch to "Clean air" mode. → To continue humidifying, fill the tray with water. (P.29)
⑫ Even if the tray is not empty, the humidifying indicator blinks.	<ul style="list-style-type: none"> ● Is the tray installed properly and completely? ● Is the product inclined? → Place the product on the flat and stable platform or floor.
⑬ The check indicator blinks. 	<ul style="list-style-type: none"> ● Is the product fell down? → ① Disconnect the power plug. ② Raise the product. (Wipe off the spilled water.) ③ Leave the product more than half a day without operation. (Dry the interior of the product completely, if water enters inside.) ④ Reconnect and turn on the product. ● Has the product been shaken, inclined, or given impact? → Disconnect and connect the power plug again. ● Has the magnet or any metal objects been placed on the product? → Disconnect and connect the power plug again.

Contact an authorized service center (as described in the warranty) immediately in the following case.

⑭ Check indicator is lit and all Air Volume indicators are blinking.	<ul style="list-style-type: none"> ● Failure has occurred. → Disconnect the power plug and contact an authorized service center (as described in the warranty) for a check or repair.
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Specifications

Power supply	220 V~ 50 Hz			
Operation mode	Clean air		Humidifying clean air	
	Hi	Lo	Hi	Lo
Power consumption (W)* ¹	52	6.5	48	6.5
Operating noise (dB)	49	23	49	23
Humidifying amount (mL/h)* ²	—* ³	—* ³	350	100
Air volume (m ³ /min)	4.0	1.1	3.7	1.0
Capacity of the tray	approx. 1.6 L			
Power code length	2.0 m			
Product dimension	Width 330 mm × Depth 250 mm × Height 590 mm			
Product weight	7.2 kg			

*1 The power consumption is about 0.2 W when the operation is set to [Off]. (With the power plug connected.)

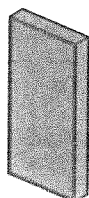
*2 Humidifying amount in the above table tested under the condition of room temperature 20 °C and humidity 30 %.
The humidifying amount may vary with the indoor temperature and humidity. (P.38)

*3 If there is water in the tray, the product uses its water to humidify a little. If you do not want to humidify, empty the tray.

● Carbon monoxide, harmful substance in tobacco, cannot be removed with this product.

Service parts

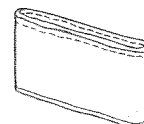
- Replacement 2 in 1 HEPA composite and deodorizing filter



Parts No. **F-ZXLS40Z**

- Replacement humidifying filter

Filter frame is not included.



Parts No. **F-ZXLE40Z**